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SUPPLEMENTARY MATERIAL

Relationship between bream (*Abramis brama*) activity and water turbidity in a shallow lake under different season conditions

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Supplementary Tab. 1. Sampling dates of Secchi depth in Lake Loldrup.

Year	Month	Day
2013	May	8
2013	August	7
2013	September	6 + 28
2013	October	5 + 23
2013	November	12
2013	December	10
2014	January	15
2014	February	17
2014	March	6
2014	April	11
2014	May	8
2014	June	2 + 10 + 17 + 20
2014	July	3 + 9 + 18
2014	August	12 + 20 + 23
2014	September	19
2014	October	8 + 16 + 23 + 31
2014	November	6
2014	December	3 + 5
2015	January	5 + 13 + 14 + 22
2015	February	16 + 18 + 25
2015	Mach	12 + 18 + 27
2015	April	13 + 14
2015	May	5 + 12† + 29
2015	June	10† + 23
2015	July	3 + 15
2015	August	13 + 17
2015	September	10 + 18
2015	October	8 + 12 + 27
2015	November	10 + 23
2015	December	1
2016	June	3 + 20
2016	July	6 + 13
2016	August	19
2016	September	15 + 22

†Secchi depth measured twice that day and the mean of these measurements are included in the analysis.

Supplementary Tab. 2. Dates identified as spawning days and removed from the GAM model. Spawning days are defined as days during the spring or early summer with water temperature above 14.5°C and bounded by sudden increases/decreases in activity of minimum 50% from one day to another.

Year	Date (month-day)
2012	June-15 – July-11
2013	May-16 – May-22
2014	May-18 – May-20
2015	June-5 – June-30
2016	May-26 – June-11

Supplementary Tab. 3. Akaike's Information Criterion (AIC) values for the different GAM models regarding delayed turbidity in relation to bream activity. The model with the lowest AIC-value is where turbidity is not delayed (Turbidity delayed 0 days) and therefore used in this study.

Model	AIC-value
Turbidity delayed 0 days	33500.7
Turbidity delayed 1 day	34189.7
Turbidity delayed 2 days	34322.8
Turbidity delayed 3 days	34544.3
Turbidity delayed 4 days	34881.4